[illegible]Taisei Protocol[illegible]

[illegible]HIV [illegible]

A Novel Protocol for HIV Cure Targeting Adipose Tissue Reservoirs via Glucose-Modified Liposomes

[illegible] [illegible]Taisei[illegible] [illegible]

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Abstract[illegible]

Current Antiretroviral Therapy (ART) fails to eradicate HIV due to viral reservoirs in adipose tissue (macrophages/memory T cells) and the brain (blocked by the Blood-Brain Barrier).

We propose the "Taisei Protocol": a three-stage treatment using Glucose-Modified Liposomes that exploit GLUT1-mediated transport during a metabolic "Golden Window" (post-ketosis refeeding).

Two sizes of nanocarriers are deployed simultaneously:

Type-Alpha (30–50nm): penetrates the BBB to target brain reservoirs

Type-Beta (100–150nm): penetrates deep adipose tissue to target fat reservoirs

Three-stage payload release (pH-responsive):

Iron chelation (Deferiprone) → stops viral replication

Phospholipase A2 → dissolves viral envelope

RNase + Lipase → destroys exposed genome and lipid debris

Key Innovation: Metabolic synchronization — using nutritional ketosis to maximize GLUT1 uptake at the moment of refeeding. This paradigm shift moves from "Shock and Kill" to "Siege and Dissolve."

1. [illegible] HIV [illegible]

[illegible] ART[illegible]

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[illegible] HIV [illegible]

[illegible] CD4+T [illegible]

[illegible]

BMI [illegible]

[illegible] ART [illegible]

[illegible] HIV [illegible]

[illegible]BBB[illegible]

[illegible]BBB [illegible] HIV [illegible]HAND[illegible]

[illegible]

[illegible]

mRNA [illegible]LNP[illegible] β[illegible]TTR [illegible]**

[illegible]**[illegible]

2. [illegible]

LNP [illegible] BBB [illegible]

[illegible]

[illegible]GLUT1 [illegible] BBB [illegible]

3. [illegible]

[illegible]

[illegible] DSPC[illegible] 55:40 [illegible] 5%GLUT1 [illegible]

BBB [illegible] PEG2000-DSPE1[illegible]2%[illegible]

[illegible]

[illegible] Type-Alpha[illegible]Interceptor[illegible]30[illegible]50nm [illegible] BBB [illegible]

Type-Beta[illegible]Dreadnought[illegible]100[illegible]150nm [illegible]

[illegible]

[illegible] HIV [illegible] A2 [illegible]

[illegible]RNase[illegible]

4. [illegible]

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Step 2 — in vivo
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Step 3 — Safety
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